P.006/012

IN THE CLAIMS:

Please amend the claims as follows:

Claims 1-3 (Cancelled).

- A method for purifying used oil, comprising: 4. (Currently Amended) mixing the a raw used oil that contains light hydrocarbons with a phase transfer catalyst in the presence of a base compound, wherein the phase transfer catalyst comprises a glycol; and
 - removing contaminants from the used oil.
- 5. (Cancelled).
- (Previously Presented) The method of claim 4, wherein the phase transfer 6. catalyst comprises ethylene glycol.
- (Previously Presented) The method of claim 4, wherein removing 7. contaminants from the used oil comprises distilling the used oil at a temperature of about 200°C to about 275°C and a pressure of about 100 torr to about 200 torr.
- (Previously Presented) The method of claim 4, wherein 8. contaminants from the used oil comprises distilling the used oil at a temperature of about 275°C to about 300°C and a pressure of about 0.05 torr to about 0.2 torr.
- wherein removing 9. (Previously Presented) The method of claim 4, contaminants from the used oil comprises distilling the used oil at a temperature of about 200°C to about 300°C and a pressure of about 0.05 torr to about 200 torr.
- 10. (Cancelled).

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- 11. (Previously Presented) The method of claim 4, wherein the base compound is an inorganic or organic base compound.
- 12. (Previously Presented) The method of claim 11, wherein the inorganic base compound is selected from the group consisting of sodium hydroxide, potassium hydroxide, and combinations thereof.
- 13. (Previously Presented) The method of claim 4, wherein a mixture of the used oil and phase transfer catalyst comprises about 1% to about 10% by weight of the phase transfer catalyst.
- 14. (Cancelled).
- 15. (Cancelled).
- 16. (Previously Presented) The method of claim 4, wherein the used oil comprises motor oil.
- 17. (Currently Amended) A method for removing contaminants from a used petroleum distillate, comprising:

mixing the used petroleum distillate that contains light hydrocarbons with ethylene glycol in the presence of a base compound; and

removing the contaminants from the used petroleum distillate using means for distillation.

18. (Previously Presented) The method of claim 17, wherein the used petroleum distillate comprises motor oil.

- 19. (Previously Presented) The method of claim 17, wherein removing contaminants from the used petroleum distillate comprises distilling the used petroleum distillate at a temperature of about 200°C to about 275°C and a pressure of about 100 torr to about 200 torr.
- 20. (Previously Presented) The method of claim 17, wherein removing contaminants from the used petroleum distillate comprises distilling the used petroleum distillate at a temperature of about 275°C to about 300°C and a pressure of about 0.05 torr to about 0.2 torr.
- 21. (Previously Presented) The method of claim 17, wherein removing contaminants from the used petroleum distillate comprises distilling the used petroleum distillate at a temperature of about 200°C to about 300°C and a pressure of about 0.05 torr to about 200 torr.
- 22. (Previously Presented) The method of claim 17, wherein a mixture of the used petroleum distillate and ethylene glycol comprises about 1% to about 10 % by weight of ethylene glycol.
- 23. (Cancelled).
- 24. (Cancelled).
- 25. (Currently Amended) A method for removing contaminants from used motor oil, comprising:

mixing the used motor oil that contains light hydrocarbons with ethylene glycol in the presence of a base compound; and then

distilling the used motor oil at a temperature of about 200°C to about 300°C and a pressure of about 0.05 torr to about 200 torr.

- 26. (Previously Presented) The method of claim 25, wherein the base compound comprises an inorganic compound.
- 27. (Previously Presented) The method of claim 26, wherein the inorganic base compound is selected from the group consisting of sodium hydroxide, potassium hydroxide, and combinations thereof.
- 28. (Previously Presented) The method of claim 25, wherein a mixture of the used motor oil and ethylene glycol comprises about 1 to about 10 % by weight of the ethylene glycol.
- 29. (Cancelled).
- 30. (Cancelled).
- 31. (Currently Amended) A method for removing contaminants from used motor oil, comprising:

mixing the used motor oil that contains light hydrocarbons with an inorganic base compound;

mixing the used motor oil <u>containing light hydrocarbons</u> with a phase transfer catalyst in the presence of the inorganic base compound, wherein the phase transfer catalyst comprises a glycol; and then

distilling the used motor oil at a temperature of about 200°C to about 275°C and a pressure of about 100 torr to about 200 torr.

- 32. (Previously Presented) The method of claim 31, wherein the inorganic base compound is selected from the group consisting of sodium hydroxide, potassium hydroxide, and combinations thereof.
- 33. (Cancelled).

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- 34. (Previously Presented) The method of claim 31, wherein the phase transfer catalyst comprises ethylene glycol.
- 35. (Previously Presented) The method of claim 31, further comprising distilling the used motor oil at a temperature of about 275°C to about 300°C and a pressure of about 0.05 torr to about 0.2 torr.
- 36. (Previously Presented) The method of claim 31, wherein a mixture of the used motor oil and phase transfer catalyst comprises about 1 to about 10 % by weight of the phase transfer catalyst.
- 37. (Cancelled).
- 38. (Cancelled).
- 39. (Previously Presented) The method of claim 11, wherein a concentration of the base compound in the used oil is between 0.5 and 5 weight percent on a dry weight basis.
- 40. (Previously Presented) The method of claim 17, wherein a concentration of the base compound in the used petroleum distillate is between 0.5 and 5 weight percent on a dry weight basis.
- 41. (Previously Presented) The method of claim 26, wherein a concentration of the base compound in the used motor oil is between 0.5 and 5 weight percent on a dry weight basis.
- 42. (Previously Presented) The method of claim 32, wherein a concentration of the base compound in the used motor oil is between 0.5 and 5 weight percent on a dry weight basis.

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